

Subject Index

Admixtures

Volume and Strength of a Dolos, Harshkumar C. Desai, WW Nov. 86 p667-668.

Air temperature

St. Lawrence River Freeze-Up Forecast, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.

Air water interactions

Wind Stress at Air-Water Interface, Bijan Safaie, WW May 84 p287-293.

Algorithms

Dynamic Behavior of Deep-Ocean Pipeline, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.

Arctic engineering

Thermoerosion of Frozen Sediment Under Wave Action, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.

Armor units

Armor Layer Stability of Rubble-Mound Breakwaters, Per Anders Hedar, WW May 86 p343-350.

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-566.

Use of Grout-Filled Sausages in Coastal Structures, Richard Silvester, WW Feb. 86 p95-114.

Artificial islands

Overload Bore Propagation Due to an Overtopping Wave, Jack C. Cox and Jerry Machemehl, WW Feb. 86 p161-163.

Barges

Estimating the Resistance of a 5×3 Barge Tow Moving in Shallow Water, R. Latorre and C. Warinner, WW July 86 p531-535.

Wave Interactions between Barges, P. Sayer and H. K. Liang, WW May 86 p402-417.

Barrier islands

Tidal Circulation in North Biscayne Bay, John D. Wang and Jacobus van de Kreeke, WW Nov. 86 p615-631.

Basins

Engineering Model for Well-Mixed Tidal Basin, A. Roy Halliwell, WW Sept. 86 p572-590.

Beach nourishment

Artificial Beach Nourishment on Belgian East Coast, Pierre Kerckaert, Paul P. L. Roovers, Ahrend Noordam and Paul De Candt, WW Sept. 86 p560-571.

Bluff Recession Rates in Chesapeake Bay, Robert A. Dalrymple, Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86 p164-168.

Economics of Beach Nourishment under Scenario

of Rising Sea Level, J. Richard Weggel, WW May 86 p418-426.

Beaches

Results of Cross-Shore Transport Experiments, Richard J. Seymour, WW Feb. 86 p168-173.

Bed ripples

Water Waves Over Ripples, Robert A. Dalrymple and James T. Kirby, WW Mar. 86 p309-319.

Belgium

Artificial Beach Nourishment on Belgian East Coast, Pierre Kerckaert, Paul P. L. Roovers, Ahrend Noordam and Paul De Candt, WW Sept. 86 p560-571.

Bluffs

Bluff Recession Rates in Chesapeake Bay, Robert A. Dalrymple, Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86 p164-168.

Boundary conditions

Open Boundary Condition in Parabolic Equation Method, James T. Kirby, WW May 86 p460-465.

Boundary element method

Water Waves Over Ripples, Robert A. Dalrymple and James T. Kirby, WW Mar. 86 p309-319.

Boundary layer

Viscous Effects on Evolution of Stokes Waves, Philip L.-F. Liu, WW Feb. 86 p55-63.

Boundary shear

Suspended Sediment in the Surf Zone, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW Feb. 86 p115-128.

Breaking waves

Modeling Waves in Surfzones and Around Islands, James T. Kirby and Robert A. Dalrymple, WW Feb. 86 p78-93.

Breakwaters

Diffraction Patterns Near Narrow Breakwater Gap, Rodney J. Sobey and Thomas L. Johnson, WW July 86 p512-528.

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-566.

Use of Grout-Filled Sausages in Coastal Structures, Richard Silvester, WW Feb. 86 p95-114.

Volume and Strength of a Dolos, Harshkumar C. Desai, WW Nov. 86 p667-668.

Wave Reflection from Energy Dissipation Region, Philip L.-F. Liu, Sung B. Yoon and Robert A. Dalrymple, WW Nov. 86 p632-644.

Wave Statistical Uncertainties and Design of Breakwater, Bernard Le Mehaute and Shen Wang, WW Sept. 85 p921-938.

Brines

Measurement of Brine Jet Height and Dilution,

- McLellan and Robert E. Randall, WW Mar. 86 p200-216.
- Caissons**
 Design Method for Predicting Wave Forces on Rectangular Caissons, M. Rahman and I. C. Chakravarty, WW Nov. 86 p661-666.
 Dynamic Response of a Caisson Plate to Wave Impact, M. Salih Kirkgoz and Yalcin Mengi, WW Mar. 86 p284-295.
- Canals**
 Estimating the Resistance of a 5×3 Barge Tow Moving in Shallow Water, R. Latorre and C. Warinner, WW July 86 p531-535.
 Inland Waterway Navigation Project Design, Bruce L. McCartney, WW Nov. 86 p645-657.
- Caverns**
 Measurement of Brine Jet Height and Dilution, McLellan and Robert E. Randall, WW Mar. 86 p200-216.
- Cements**
 Use of Grout-Filled Sausages in Coastal Structures, Richard Silvester, WW Feb. 86 p95-114.
- Channel design**
 Ship Simulation Models: An Aid to Harbor Design, R. P. Dallinga, T. Elzinga and R. H. M. Huijtmans, WW Mar. 86 p255-268.
- Channel stabilization**
 River Response to Dredging, Peter F. Lagasse, WW Feb. 86 p1-14.
- Channels, waterways**
 River Response to Dredging, Peter F. Lagasse, WW Feb. 86 p1-14.
 Sedimentation of Dredged Channels by Currents and Waves, Leo C. van Rijn, WW Sept. 86 p541-559.
 Wave Interaction with a Rectangular Trench, Francis C. K. Ting and Fredric Raichlen, WW May 86 p454-460.
- Circulation**
 Tidal Circulation in North Biscayne Bay, John D. Wang and Jacobus van de Kreeke, WW Nov. 86 p615-631.
- Coastal morphology**
 Artificial Beach Nourishment on Belgian East Coast, Pierre Kerckaert, Paul P. L. Roovers, Ahrend Noordam and Paul De Candt, WW Sept. 86 p560-571.
- Coastal structures**
 Economics of Beach Nourishment under Scenario of Rising Sea Level, J. Richard Weggel, WW May 86 p418-426.
- Collisions**
 Collision of a Large Floating Ice Feature with a Massive Offshore Structure, Eugene M. Gershunov, WW May 86 p390-401.
- Computerized simulation**
 Computer Simulation of Moored Ship Behavior, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.
- Concrete, reinforced**
 Volume and Strength of a Dolos, Harshkumar C. Desai, WW Nov. 86 p667-668.
- Confidence limit**
 The Probability Distribution of Spectral Integrals, Ian R. Young, WW Mar. 86 p338-341.
- Cylinders**
 Turbulent Separation Around Cylinders in Waves, Jorgen Fredsoe and Peter Justesen, WW Mar. 86 p217-233.
- Deep water**
 Design of Jackets in Deeper Gulf of Mexico Waters, Demir I. Karsan, WW May 86 p427-446.
- Design**
 Design of Jackets in Deeper Gulf of Mexico Waters, Demir I. Karsan, WW May 86 p427-446.
- Design waves**
 Wave Statistical Uncertainties and Design of Breakwater, Bernard Le Mehaute and Shen Wang, WW Sept. 85 p921-938.
- Dredging**
 Hydraulic Model Studies for Suction Cutterheads, Shashikant B. Brahme and John B. Herbich, WW Sept. 86 p591-606.
 River Response to Dredging, Peter F. Lagasse, WW Feb. 86 p1-14.
 Sedimentation of Dredged Channels by Currents and Waves, Leo C. van Rijn, WW Sept. 86 p541-559.
- Dynamic characteristics**
 Design of Jackets in Deeper Gulf of Mexico Waters, Demir I. Karsan, WW May 86 p427-446.
- Dynamic response**
 Dynamic Response of a Caisson Plate to Wave Impact, M. Salih Kirkgoz and Yalcin Mengi, WW Mar. 86 p284-295.
- Economic analysis**
 Economics of Beach Nourishment under Scenario of Rising Sea Level, J. Richard Weggel, WW May 86 p418-426.
- Eddies**
 Modeling Tidal Circulation in an Island's Wake, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.
- Energy dissipation**
 Wave Reflection from Energy Dissipation Region, Philip L.-F. Liu, Sung B. Yoon and Robert A. Dalrymple, WW Nov. 86 p632-644.
- Erosion**
 Bluff Recession Rates in Chesapeake Bay, Robert

- A. Dalrymple, Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86 p164-168.
- Thermoerosion of Frozen Sediment Under Wave Action**, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.
- Estuaries**
- Engineering Model for Well-Mixed Tidal Basin**, A. Roy Halliwell, WW Sept. 86 p572-590.
- Field tests**
- Results of Cross-Shore Transport Experiments**, Richard J. Seymour, WW Feb. 86 p168-173.
- Floating ice**
- Collision of a Large Floating Ice Feature with a Massive Offshore Structure**, Eugene M. Gershunov, WW May 86 p390-401.
- Floating structures**
- Computer Simulation of Moored Ship Behavior**, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.
- Directional Wave Effects on Large Offshore Structures**, Michael de St. Q. Isaacson and Sanjay Sinha, WW July 86 p482-497.
- Floes**
- Collision of a Large Floating Ice Feature with a Massive Offshore Structure**, Eugene M. Gershunov, WW May 86 p390-401.
- Flow rates**
- St. Lawrence River Freeze-Up Forecast**, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.
- Flumes**
- Water Particle Velocities in Regular Waves**, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.
- Freezing**
- St. Lawrence River Freeze-Up Forecast**, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.
- Harbors**
- Water Quality Simulation Study of a Natural Harbor**, Roger A. Falconer, WW Feb. 86 p15-34.
- Height**
- Bluff Recession Rates in Chesapeake Bay**, Robert A. Dalrymple, Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86 p164-168.
- Hurricanes**
- Hurricane Wind Waves—A Discrete Spectral Model**, Rodney J. Sobey and Ian R. Young, WW May 86 p370-389.
- Hydraulic models**
- Hydraulic Model Studies for Suction Cutterheads**, Shashikant B. Brahme and John B. Herbich, WW Sept. 86 p591-606.
- Hydrodynamics**
- Dynamic Behavior of Deep-Ocean Pipeline**, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.
- Modeling Tidal Circulation in an Island's Wake**, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.
- Water Quality Simulation Study of a Natural Harbor**, Roger A. Falconer, WW Feb. 86 p15-34.
- Ice**
- Thermoerosion of Frozen Sediment Under Wave Action**, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.
- Ice formation**
- St. Lawrence River Freeze-Up Forecast**, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.
- Ice loads**
- Collision of a Large Floating Ice Feature with a Massive Offshore Structure**, Eugene M. Gershunov, WW May 86 p390-401.
- Icebergs**
- Collision of a Large Floating Ice Feature with a Massive Offshore Structure**, Eugene M. Gershunov, WW May 86 p390-401.
- Impact**
- Collision of a Large Floating Ice Feature with a Massive Offshore Structure**, Eugene M. Gershunov, WW May 86 p390-401.
- Impact forces**
- Dynamic Response of a Caisson Plate to Wave Impact**, M. Salih Kirkgoz and Yalcin Mengi, WW Mar. 86 p284-295.
- Inland waterways**
- Inland Waterway Navigation Project Design**, Bruce L. McCartney, WW Nov. 86 p645-657.
- Integral equations**
- Wave Interactions between Barges**, P. Sayer and H. K. Liang, WW May 86 p402-417.
- Interactions**
- Wave Interactions between Barges**, P. Sayer and H. K. Liang, WW May 86 p402-417.
- Islands**
- Modeling Tidal Circulation in an Island's Wake**, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.
- Jet diffusion**
- Measurement of Brine Jet Height and Dilution**, McLellan and Robert E. Randall, WW Mar. 86 p200-216.
- Lagoons**
- Tidal Circulation in North Biscayne Bay**, John D. Wang and Jacobus van de Kreeke, WW Nov. 86 p615-631.
- Littoral drift**
- Bluff Recession Rates in Chesapeake Bay**, Robert

A. Dalrymple, Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86 p164-168.
Mathematical Model for Littoral Drift, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86 p351-369.

Mass transport

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Mathematical models

Computer Simulation of Moored Ship Behavior, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.

Mathematical Model for Littoral Drift, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86 p351-369.

Modeling Tidal Circulation in an Island's Wake, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.

Membranes

Use of Grout-Filled Sausages in Coastal Structures, Richard Silvester, WW Feb. 86 p95-114.

Mississippi River

River Response to Dredging, Peter F. Lagasse, WW Feb. 86 p1-14.

Monitoring

Artificial Beach Nourishment on Belgian East Coast, Pierre Kerckaert, Paul P. L. Roovers, Ahrend Noordam and Paul De Candt, WW Sept. 86 p560-571.

Mooring

Computer Simulation of Moored Ship Behavior, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.

Navigation

Inland Waterway Navigation Project Design, Bruce L. McCartney, WW Nov. 86 p645-657.

Navigation dams

Inland Waterway Navigation Project Design, Bruce L. McCartney, WW Nov. 86 p645-657.

Numerical models

Modeling Waves in Surfzones and Around Islands, James T. Kirby and Robert A. Dalrymple, WW Feb. 86 p78-93.

Tidal Circulation in North Biscayne Bay, John D. Wang and Jacobus van de Kreeke, WW Nov. 86 p615-631.

Ocean waves

On the Highest Periodic Short-Crested Wave, Bernard Le Mehaute, WW Mar. 86 p320-330.

Offshore engineering

Computer Simulation of Moored Ship Behavior, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.

Offshore pipeline

Dynamic Behavior of Deep-Ocean Pipeline, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.

Offshore platforms

Wave Forces on an Offshore Gravity Platform, Subrata K. Chakrabarti, WW Mar. 86 p269-283.

Offshore structures

Collision of a Large Floating Ice Feature with a Massive Offshore Structure, Eugene M. Gershunov, WW May 86 p390-401.

Design of Jackets in Deeper Gulf of Mexico Waters, Demir I. Karsan, WW May 86 p427-446.

Directional Wave Effects on Large Offshore Structures, Michael de St. Q. Isaacson and Sanjay Sinha, WW July 86 p482-497.

Oil storage

Measurement of Brine Jet Height and Dilution, McLellan and Robert E. Randall, WW Mar. 86 p200-216.

Overtopping

Overload Bore Propagation Due to an Overtopping Wave, Jack C. Cox and Jerry Machemehl, WW Feb. 86 p161-163.

Particles

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Permeability

Armor Layer Stability of Rubble-Mound Breakwaters, Per Anders Hedar, WW May 86 p343-350.

Pipeline design

Dynamic Behavior of Deep-Ocean Pipeline, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.

Plates

Dynamic Response of a Caisson Plate to Wave Impact, M. Salih Kirkgoz and Yalcin Mengi, WW Mar. 86 p284-295.

Pore water pressure

Wave Propagation Over a Sediment Trench, Philip L.-F. Liu, Brian R. Turcotte and Fred H. Kulhawy, WW Feb. 86 p64-77.

Ports

Ship Simulation Models: An Aid to Harbor Design, R. P. Dallinga, T. Elzinga and R. H. M. Huijsmans, WW Mar. 86 p255-268.

Predictions

Hurricane Wind Waves—A Discrete Spectral Model, Rodney J. Sobey and Ian R. Young, WW May 86 p370-389.

Probabilistic methods

Ship Simulation Models: An Aid to Harbor Design,

R. P. Dallinga, T. Elzinga and R. H. M. Huijsmans, WW Mar. 86 p255-268.

Probability distribution

The Probability Distribution of Spectral Integrals, Ian R. Young, WW Mar. 86 p338-341.

Progressive waves

Wave Numbers of Linear Progressive Waves, Chung-Shang Wu and E. B. Thornton, WW July 86 p536-540.

Random waves

Dynamic Behavior of Deep-Ocean Pipeline, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.

Rectangular cross section

Design Method for Predicting Wave Forces on Rectangular Caissons, M. Rahman and I. C. Chakravarty, WW Nov. 86 p661-666.

Resistance

Estimating the Resistance of a 5×3 Barge Tow Moving in Shallow Water, R. Latorre and C. Warinner, WW July 86 p531-535.

Revetments

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-566.

Riprap

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-566.

River regulation

River Response to Dredging, Peter F. Lagasse, WW Feb. 86 p1-14.

Rubble-mound breakwaters

Armor Layer Stability of Rubble-Mound Breakwaters, Per Anders Hedar, WW May 86 p343-350.

Salinity

Engineering Model for Well-Mixed Tidal Basin, A. Roy Halliwell, WW Sept. 86 p572-590.

Salt dunes

Measurement of Brine Jet Height and Dilution, McLellan and Robert E. Randall, WW Mar. 86 p200-216.

Salt water-freshwater interfaces

Engineering Model for Well-Mixed Tidal Basin, A. Roy Halliwell, WW Sept. 86 p572-590.

Sea level

Economics of Beach Nourishment under Scenario of Rising Sea Level, J. Richard Weggel, WW May 86 p418-426.

Sediment

Thermoerosion of Frozen Sediment Under Wave Action, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.

Sediment concentration

Profile of Suspended Sediment Due to Wave Action, Suphat Vongvisessomjai, WW Feb. 86 p35-53.

Sediment deposits

Wave Propagation Over a Sediment Trench, Philip L.-F. Liu, Brian R. Turcotte and Fred H. Kulhawy, WW Feb. 86 p64-77.

Sediment transport

Engineering Model for Well-Mixed Tidal Basin, A. Roy Halliwell, WW Sept. 86 p572-590.

Mathematical Model for Littoral Drift, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86 p351-369.

Profile of Suspended Sediment Due to Wave Action, Suphat Vongvisessomjai, WW Feb. 86 p35-53.

Results of Cross-Shore Transport Experiments, Richard J. Seymour, WW Feb. 86 p168-173.

Sedimentation of Dredged Channels by Currents and Waves, Leo C. van Rijn, WW Sept. 86 p541-559.

Sedimentation

Sedimentation of Dredged Channels by Currents and Waves, Leo C. van Rijn, WW Sept. 86 p541-559.

Shallow water

Determination of the Angle of Wave Approach in Shallow Water, Douglas J. Sherman and Brian Greenwood, WW Feb. 86 p129-139.

Estimating the Resistance of a 5×3 Barge Tow Moving in Shallow Water, R. Latorre and C. Warinner, WW July 86 p531-535.

Shear stress

Wind Stress at Air-Water Interface, Bijan Safaie, WW May 84 p287-293.

Ship motion

Computer Simulation of Moored Ship Behavior, G. van Oortmerssen, J. A. Pinkster and H. J. J. van den Boom, WW Mar. 86 p296-308.

Ship Simulation Models: An Aid to Harbor Design, R. P. Dallinga, T. Elzinga and R. H. M. Huijsmans, WW Mar. 86 p255-268.

Simulation models

Ship Simulation Models: An Aid to Harbor Design, R. P. Dallinga, T. Elzinga and R. H. M. Huijsmans, WW Mar. 86 p255-268.

Water Quality Simulation Study of a Natural Harbor, Roger A. Falconer, WW Feb. 86 p15-34.

Spectral analysis

Wave Numbers of Linear Progressive Waves, Chung-Shang Wu and E. B. Thornton, WW July 86 p536-540.

St. Lawrence River

St. Lawrence River Freeze-Up Forecast, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.

Stability

Armor Layer Stability of Rubble-Mound Breakwaters, Per Anders Hedar, WW May 86 p343-350.

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-556.

Stoke's law

On the Highest Periodic Short-Crested Wave, Bernard Le Mehaute, WW Mar. 86 p320-330.

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Stream function

Nonuniqueness in Stream Function Wave Theory, Robert A. Dalrymple and Pedro Solana, WW Mar. 86 p333-337.

Surf zone

Modeling Waves in Surfzones and Around Islands, James T. Kirby and Robert A. Dalrymple, WW Feb. 86 p78-93.

Suspended Sediment in the Surf Zone, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW Feb. 86 p115-128.

Surf-zone

Mathematical Model for Littoral Drift, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86 p351-369.

Suspended sediments

Hydraulic Model Studies for Suction Cutterheads, Shashikant B. Brahme and John B. Herbich, WW Sept. 86 p591-606.

Profile of Suspended Sediment Due to Wave Action, Suphat Vongvisessomjai, WW Feb. 86 p35-53.

Suspended Sediment in the Surf Zone, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW Feb. 86 p115-128.

Temperature effects

Thermoerosion of Frozen Sediment Under Wave Action, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.

Three-dimensional analysis

Dynamic Behavior of Deep-Ocean Pipeline, M. Zimmerman, Robert Hudspeth, J. Leonard, J. Tedesco and L. Borgman, WW Mar. 86 p183-199.

Tidal currents

Modeling Tidal Circulation in an Island's Wake, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.

Tidal Circulation in North Biscayne Bay, John D. Wang and Jacobus van de Kreeke, WW Nov. 86 p615-631.

Towing

Estimating the Resistance of a 5 x 3 Barge Tow Moving in Shallow Water, R. Latorre and C.

Warinner, WW July 86 p531-535.

Trenches

Wave Interaction with a Rectangular Trench, Francis C. K. Ting and Fredric Raichlen, WW May 86 p454-460.

Wave Propagation Over a Sediment Trench, Philip L.-F. Liu, Brian R. Turcotte and Fred H. Kulhawy, WW Feb. 86 p64-77.

Turbidity

Hydraulic Model Studies for Suction Cutterheads, Shashikant B. Brahme and John B. Herbich, WW Sept. 86 p591-606.

Turbulence

Suspended Sediment in the Surf Zone, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW Feb. 86 p115-128.

Turbulent boundary layer

Turbulent Separation Around Cylinders in Waves, Jorgen Fredsoe and Peter Justesen, WW Mar. 86 p217-233.

Velocity

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Viscosity

Viscous Effects on Evolution of Stokes Waves, Philip L.-F. Liu, WW Feb. 86 p55-63.

Wakes

Modeling Tidal Circulation in an Island's Wake, Roger A. Falconer, Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86 p234-254.

Water

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Water pressure

Wave Forces on an Offshore Gravity Platform, Subrata K. Chakrabarti, WW Mar. 86 p269-283.

Water quality

Water Quality Simulation Study of a Natural Harbor, Roger A. Falconer, WW Feb. 86 p15-34.

Water temperature

St. Lawrence River Freeze-Up Forecast, Edward P. Foltyn and Hung Tao Shen, WW July 86 p467-481.

Water waves

Nonuniqueness in Stream Function Wave Theory, Robert A. Dalrymple and Pedro Solana, WW Mar. 86 p333-337.

Water Waves Over Ripples, Robert A. Dalrymple and James T. Kirby, WW Mar. 86 p309-319.

Wave Numbers of Linear Progressive Waves, Chung-Shang Wu and E. B. Thornton, WW July 86 p536-540.

Wave action

Profile of Suspended Sediment Due to Wave Action, Suphat Vongvisessomjai, WW Feb. 86 p35-53.

Riprap Stability Under Wave Action, Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85 p552-566.

Thermoerosion of Frozen Sediment Under Wave Action, Nobuhisa Kobayashi and Demet Aktan, WW Feb. 86 p140-158.

Wave Interactions between Barges, P. Sayer and H. K. Liang, WW May 86 p402-417.

Wave climatology

Wave Statistical Uncertainties and Design of Breakwater, Bernard Le Mehaute and Shen Wang, WW Sept. 85 p921-938.

Wave crest

On the Highest Periodic Short-Crested Wave, Bernard Le Mehaute, WW Mar. 86 p320-330.

Polar Analysis of Short-Crested Model Waves, Leo H. Holthuijsen and Nico Booij, WW May 86 p449-453.

Wave diffraction

Diffraction Patterns Near Narrow Breakwater Gap, Rodney J. Sobey and Thomas L. Johnson, WW July 86 p512-528.

Directional Wave Effects on Large Offshore Structures, Michael de St. Q. Isaacson and Sanjay Sinha, WW July 86 p482-497.

Viscous Effects on Evolution of Stokes Waves, Philip L.-F. Liu, WW Feb. 86 p55-63.

Wave energy

Unification of Two-Parameter Energy Spectrum Models, Subrata K. Chakrabarti, WW Feb. 86 p173-176.

Wave forces

Design Method for Predicting Wave Forces on Rectangular Caissons, M. Rahman and I. C. Chakravarty, WW Nov. 86 p661-666.

Design of Jackets in Deeper Gulf of Mexico Waters, Demir I. Karsan, WW May 86 p427-446.

Directional Wave Effects on Large Offshore Structures, Michael de St. Q. Isaacson and Sanjay Sinha, WW July 86 p482-497.

Wave Forces on an Offshore Gravity Platform, Subrata K. Chakrabarti, WW Mar. 86 p269-283.

Wave groups

Wave Groupiness in a Long-Traveled Swell, K. V. Thomas, M. Baba and C. M. Harish, WW July 86 p498-511.

Wave height

Mathematical Model for Littoral Drift, Rolf Deigaard, Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86 p351-369.

Modeling Waves in Surfzones and Around Islands, James T. Kirby and Robert A. Dalrymple, WW Feb. 86 p78-93.

On the Highest Periodic Short-Crested Wave,

Bernard Le Mehaute, WW Mar. 86 p320-330.

The Probability Distribution of Spectral Integrals, Ian R. Young, WW Mar. 86 p338-341.

Wave Groupiness in a Long-Traveled Swell, K. V. Thomas, M. Baba and C. M. Harish, WW July 86 p498-511.

Wave Statistical Uncertainties and Design of Breakwater, Bernard Le Mehaute and Shen Wang, WW Sept. 85 p921-938.

Wave length

On the Highest Periodic Short-Crested Wave, Bernard Le Mehaute, WW Mar. 86 p320-330.

Wave measurement

Polar Analysis of Short-Crested Model Waves, Leo H. Holthuijsen and Nico Booij, WW May 86 p449-453.

Wave pressure

Dynamic Response of a Caisson Plate to Wave Impact, M. Salih Kirkgoz and Yalcin Mengi, WW Mar. 86 p284-295.

Wave propagation

Open Boundary Condition in Parabolic Equation Method, James T. Kirby, WW May 86 p460-465.

Wave Interaction with a Rectangular Trench, Francis C. K. Ting and Fredric Raichlen, WW May 86 p454-460.

Wave reflection

Wave Propagation Over a Sediment Trench, Philip L.-F. Liu, Brian R. Turcotte and Fred H. Kulhawy, WW Feb. 86 p64-77.

Wave reflections

Wave Reflection from Energy Dissipation Region, Philip L.-F. Liu, Sung B. Yoon and Robert A. Dalrymple, WW Nov. 86 p632-644.

Wave refraction

Viscous Effects on Evolution of Stokes Waves, Philip L.-F. Liu, WW Feb. 86 p55-63.

Wave Numbers of Linear Progressive Waves, Chung-Shang Wu and E. B. Thornton, WW July 86 p536-540.

Wave runup

Overload Bore Propagation Due to an Overtopping Wave, Jack C. Cox and Jerry Machemehl, WW Feb. 86 p161-163.

Wave spectra

Determination of the Angle of Wave Approach in Shallow Water, Douglas J. Sherman and Brian Greenwood, WW Feb. 86 p129-139.

Polar Analysis of Short-Crested Model Waves, Leo H. Holthuijsen and Nico Booij, WW May 86 p449-453.

The Probability Distribution of Spectral Integrals, Ian R. Young, WW Mar. 86 p338-341.

Unification of Two-Parameter Energy Spectrum Models, Subrata K. Chakrabarti, WW Feb. 86 p173-176.

Wave Groupiness in a Long-Traveled Swell, K. V.

Thomas, M. Baba and C. M. Harish, WW July 86 p498-511.

Wave tanks

Polar Analysis of Short-Crested Model Waves, Leo H. Holthuijsen and Nico Booij, WW May 86 p449-453.

Waves

Water Particle Velocities in Regular Waves, Geoffrey N. Bullock and Ian Short, WW Mar. 85 p189-200.

Weight

Armor Layer Stability of Rubble-Mound Break-

waters, Per Anders Hedar, WW May 86 p343-350.

Wind

Wind Stress at Air-Water Interface, Bijan Safaie, WW May 84 p287-293.

Wind waves

Hurricane Wind Waves—A Discrete Spectral Model, Rodney J. Sobey and Ian R. Young, WW May 86 p370-389.

Author Index

- Aguilar, Jose**
see Medina, Josep R., (disc), WW Sept. 86, p609-612
- Akita, Demet**
see Kobayashi, Nobuhisa, WW Feb. 86, p140-158
- Baba, M.**
see Thomas, K. V., WW July 86, p498-511
- Biggs, Robert B.**
see Dalrymple, Robert A., WW Feb. 86, p164-168
- Booij, Nico**
see Holthuijsen, Leo H., WW May 86, p449-453
- Borgman, L.**
see Zimmerman, M., WW Mar. 86, p183-199
- Brahme, Shashikant B.**
Hydraulic Model Studies for Suction Cutterheads, with John B. Herbich, WW Sept. 86, p591-606
- Braun, P.**
disc. (of Riprap Stability Under Wave Action, by Nobuhisa Kobayashi and Brian K. Jacobs, WW May 85, p552-566), WW Nov. 86, p671-673
- Bullock, Geoffrey N.**
Water Particle Velocities in Regular Waves, with Ian Short, WW Mar. 85, p189-200
err: WW Sept. 86, p609
- Chakrabarti, Subrata K.**
Unification of Two-Parameter Energy Spectrum Models, WW Feb. 86, p173-176
Wave Forces on an Offshore Gravity Platform, WW Mar. 86, p269-283
- Chakravarty, I. C.**
see Rahman, M., WW Nov. 86, p661-666
- Cox, Jack C.**
Overload Bore Propagation Due to an Overtopping Wave, with Jerry Machemehl, WW Feb. 86, p161-163
- Dallings, R. P.**
Ship Simulation Models: An Aid to Harbor Design, with T. Elzinga and R. H. M. Huijsmans, WW Mar. 86, p255-268
- Dalrymple, Robert A.**
Bluff Recession Rates in Chesapeake Bay, with Robert B. Biggs, Robert G. Dean and Hsiang Wang, WW Feb. 86, p164-168
Nonuniqueness in Stream Function Wave Theory, with Pedro Solana, WW Mar. 86, p333-337
Water Waves Over Ripples, with James T. Kirby, WW Mar. 86, p309-319
see Kirby, James T., WW Feb. 86, p78-93
see Liu, Philip L.-F., WW Nov. 86, p632-644
- De Camô, Paul**
see Kerckaert, Pierre, WW Sept. 86, p560-571
- Dean, Robert G.**
see Dalrymple, Robert A., WW Feb. 86, p164-168
- Deigaard, Rolf**
Mathematical Model for Littoral Drift, with Jorgen Fredsoe and Ida Broker Hedegaard, WW May 86, p351-369
- Deigaard, Rolf**
Suspended Sediment in the Surf Zone, with Jorgen Fredsoe and Ida Broker Hedegaard, WW Feb. 86, p115-128
- Desai, Harshkumar C.**
Volume and Strength of a Dolos, WW Nov. 86, p667-668
- Elzinga, T.**
see Dallings, R. P., WW Mar. 86, p255-268
- Falconer, Roger A.**
Modeling Tidal Circulation in an Island's Wake, with Eric Wolanski and Lida Mardapitta-Hadjipandeli, WW Mar. 86, p234-254
Water Quality Simulation Study of a Natural Harbor, WW Feb. 86, p15-34
- Foltyn, Edward P.**
St. Lawrence River Freeze-Up Forecast, with Hung Tao Shen, WW July 86, p467-481
- Fredsoe, Jorgen**
Turbulent Separation Around Cylinders in Waves, with Peter Justesen, WW Mar. 86, p217-233
see Deigaard, Rolf, WW Feb. 86, p115-128
see Deigaard, Rolf, WW May 86, p351-369
- Gershunov, Eugene M.**
Collision of a Large Floating Ice Feature with a Massive Offshore Structure, WW May 86, p390-401
- Greenwood, Brian**
see Sherman, Douglas J., WW Feb. 86, p129-139
- Hallinwell, A. Ray**
Engineering Model for Well-Mixed Tidal Basin, WW Sept. 86, p572-590
- Harish, C. M.**
see Thomas, K. V., WW July 86, p498-511
- Hedar, Per Anders**
Armor Layer Stability of Rubble-Mound Breakwaters, WW May 86, p343-350
- Hedegaard, Ida Broker**
see Deigaard, Rolf, WW Feb. 86, p115-128
see Deigaard, Rolf, WW May 86, p351-369
- Herbich, John B.**
see Brahme, Shashikant B., WW Sept. 86, p591-606
- Holthuijsen, Leo H.**
Polar Analysis of Short-Crested Model Waves, with Nico Booij, WW May 86, p449-453
- Hudspeth, Robert**
see Zimmerman, M., WW Mar. 86, p183-199
- Huijsmans, R. H. M.**
see Dallings, R. P., WW Mar. 86, p255-268
- Inacson, Michael de St. Q.**
Directional Wave Effects on Large Offshore Structures, with Sanjay Sinha, WW July 86, p482-497
- Jacobs, Brian K.**
see Kobayashi, Nobuhisa, WW May 85, p552-566
- Johnson, Thomas L.**
see Sobey, Rodney J., WW July 86, p512-528

- Justesen, Peter**
see Fredsoe, Jorgen, WW Mar. 86, p217-233
- Karsan, Demir I.**
Design of Jackets in Deeper Gulf of Mexico Waters, WW May 86, p427-446
- Kerckaert, Pierre**
Artificial Beach Nourishment on Belgian East Coast, with Paul P. L. Roovers, Ahrend Noordam and Paul De Candt, WW Sept. 86, p560-571
- Kirby, James T.**
Modeling Waves in Surfzones and Around Islands, with Robert A. Dalrymple, WW Feb. 86, p78-93
Open Boundary Condition in Parabolic Equation Method, WW May 86, p460-465
see Dalrymple, Robert A., WW Mar. 86, p309-319
- Kirkgoz, M. Salih**
Dynamic Response of a Caisson Plate to Wave Impact, with Yalcin Mengi, WW Mar. 86, p284-295
- Kobayashi, Nobuhisa**
Riprap Stability Under Wave Action, with Brian K. Jacobs, WW May 85, p552-566
disc: P. Bruun, WW Nov. 86, p671-673
clo: WW Nov. 86, p673-681
- Thermoerosion of Frozen Sediment Under Wave Action, with Demet Aktan, WW Feb. 86, p140-158**
- Kulhawy, Fred H.**
see Liu, Philip L.-F., WW Feb. 86, p64-77
- Lagasse, Peter F.**
River Response to Dredging, WW Feb. 86, p1-14
- Latorre, R.**
Estimating the Resistance of a 5×3 Barge Tow Moving in Shallow Water, with C. Warinner, WW July 86, p531-535
- Le Mehaute, Bernard**
On the Highest Periodic Short-Crested Wave, WW Mar. 86, p320-330
Wave Statistical Uncertainties and Design of Breakwater, with Shen Wang, WW Sept. 85, p921-938
disc: Josep R. Medina and Jose Aguilar, WW Sept. 86, p609-612
clo: WW Sept. 86, p612-613
- Leonard, J.**
see Zimmerman, M., WW Mar. 86, p183-199
- Liang, H. K.**
see Sayer, P., WW May 86, p402-417
- Liu, Philip L.-F.**
Wave Propagation Over a Sediment Trench, with Brian R. Turcotte and Fred H. Kulhawy, WW Feb. 86, p64-77
Viscous Effects on Evolution of Stokes Waves, WW Feb. 86, p55-63
Wave Reflection from Energy Dissipation Region, with Sung B. Yoon and Robert A. Dalrymple, WW Nov. 86, p632-644
- McCartney, Bruce L.**
Inland Waterway Navigation Project Design, WW Nov. 86, p645-657
- Machemehl, Jerry**
see Cox, Jack C., WW Feb. 86, p161-163
- McLellan**
Measurement of Brine Jet Height and Dilution, with Robert E. Randall, WW Mar. 86, p200-216
- Mardapitta-Hadipandeli, Lida**
see Falconer, Roger A., WW Mar. 86, p234-254
- Medina, Josep R.**
disc. (of Wave Statistical Uncertainties and Design of Breakwater, by Bernard Le Mehaute and Shen Wang, WW Sept. 85, p921-938) with Jose Aguilar, WW Sept. 86, p609-612
- Mengi, Yalcin**
see Kirkgoz, M. Salih, WW Mar. 86, p284-295
- Merzi, Nuri**
disc. (of Wind Stress at Air-Water Interface, by Bijan Safaei, WW May 84, p287-293), WW Feb. 86, p179-181
- Noordam, Ahrend**
see Kerckaert, Pierre, WW Sept. 86, p560-571
- Pinkster, J. A.**
see van Oortmersaen, G., WW Mar. 86, p296-308
- Rahman, M.**
Design Method for Predicting Wave Forces on Rectangular Caissons, with I. C. Chakravarty, WW Nov. 86, p661-666
- Raichlen, Fredric**
see Ting, Francis C. K., WW May 86, p454-460
- Randall, Robert E.**
see McLellan, WW Mar. 86, p200-216
- Roovers, Paul P. L.**
see Kerckaert, Pierre, WW Sept. 86, p560-571
- Safaei, Bijan**
Wind Stress at Air-Water Interface, WW May 84, p287-293
disc: Nuri Merzi, WW Feb. 86, p179-181
- Sayer, P.**
Wave Interactions between Barges, with H. K. Liang, WW May 86, p402-417
- Seymour, Richard J.**
Results of Cross-Shore Transport Experiments, WW Feb. 86, p168-173
- Shen, Hung Tao**
see Foltyn, Edward P., WW July 86, p467-481
- Sherman, Douglas J.**
Determination of the Angle of Wave Approach in Shallow Water, with Brian Greenwood, WW Feb. 86, p129-139
- Short, Ian**
see Bullock, Geoffrey N., WW Mar. 85, p189-200
- Silvester, Richard**
Use of Grout-Filled Sausages in Coastal Structures, WW Feb. 86, p95-114
- Sinha, Sanjay**
see Isaacson, Michael de St. Q., WW July 86, p482-497
- Sobey, Rodney J.**
Diffraction Patterns Near Narrow Breakwater Gap,

with Thomas L. Johnson, WW July 86, p512-528
Hurricane Wind Waves—A Discrete Spectral
Model, with Ian R. Young, WW May 86,
p370-389

Solana, Pedro
see Dalrymple, Robert A., WW Mar. 86, p333-337

Tedesco, J.
see Zimmerman, M., WW Mar. 86, p183-199

Thomas, K. V.
Wave Groupiness in a Long-Traveled Swell, with
M. Baba and C. M. Harish, WW July 86,
p498-511

Thornton, E. B.
see Wu, Chung-Shang, WW July 86, p536-540

Ting, Francis C. K.
Wave Interaction with a Rectangular Trench, with
Fredric Raichlen, WW May 86, p454-460

Turcotte, Brian R.
see Liu, Philip L.-F., WW Feb. 86, p64-77

van de Kreeke, Jacobus
see Wang, John D., WW Nov. 86, p615-631

van den Boom, H. J. J.
see van Oortmerssen, G., WW Mar. 86, p296-308

van Oortmerssen, G.
Computer Simulation of Moored Ship Behavior,
with J. A. Pinkster and H. J. J. van den Boom,
WW Mar. 86, p296-308

van Rijs, Leo C.
Sedimentation of Dredged Channels by Currents
and Waves, WW Sept. 86, p541-559

Vongvisessomjai, Suphat
Profile of Suspended Sediment Due to Wave
Action, WW Feb. 86, p35-53

Wang, Hsiang
see Dalrymple, Robert A., WW Feb. 86, p164-168

Wang, John D.
Tidal Circulation in North Biscayne Bay, with
Jacobus van de Kreeke, WW Nov. 86, p615-631

Wang, Shen
see Le Mehaute, Bernard, WW Sept. 85, p921-938

Warinner, C.
see Latorre, R., WW July 86, p531-535

Weggel, J. Richard
Economics of Beach Nourishment under Scenario
of Rising Sea Level, WW May 86, p418-426

Wolanski, Eric
see Falconer, Roger A., WW Mar. 86, p234-254

Wu, Chung-Shang
Wave Numbers of Linear Progressive Waves, with
E. B. Thornton, WW July 86, p536-540

Yoon, Sung B.
see Liu, Philip L.-F., WW Nov. 86, p632-644

Young, Ian R.
The Probability Distribution of Spectral Integrals,
WW Mar. 86, p338-341
see Sobey, Rodney J., WW May 86, p370-389

Zimmerman, M.
Dynamic Behavior of Deep-Ocean Pipeline, with
Robert Hudspeth, J. Leonard, J. Tedesco and L.
Borgman, WW Mar. 86, p183-199